

6.1 Generating Electricity (p.598)

12/16/15

WDYS A guy is holding a lightbulb that is lit but not attached to anything, a crank device puts energy into wires that you attach to something else, Confused dog, confused ground hog, boy has thinking cloud w/ ? that looks like a lightbulb, boy holding something that has knobs and looks like lightbulb goes into it

WDYT How generated? Lots of wires, solar panels, wind turbines, water turbines, burning coal, wood, gas, oil
Nuclear energy

Sources: sun, water, wind, coal + fossil fuels,
Uranium

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IWBAT trace energy transformations, plan a model for electricity, construct a circuit that lights a bulb, and adjust the brightness of a light bulb with a hand generator. I will do this through team experiments and discussions with my team and the whole class. I will demonstrate my understanding through answering questions in the Physics Talk, Checking Up, and/or Physics to Go.

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Investigate

Answer all non-list questions in complete sentences.

A2. List five for each category (use & eliminate).

B1.a) Draw this on paper to turn in.

B4. Draw this on paper to turn in.

B5. Have each team member write the answer to a different part. (3 parts, 3 people typing answers)

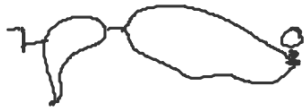
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Physics Talk (p.600)

electrical circuit - a closed looping path for electricity to travel along



Energy transformations

Chemical potential energy

Kinetic energy

Mechanical energy

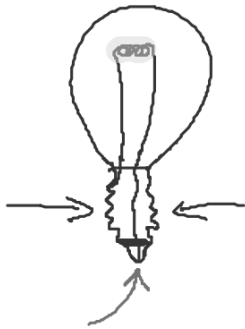
Electrical

Light & heat

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More electricity through the same filament causes more light and heat to be produced.

More resistance causes more electrical energy converted to heat + light.

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Physics to Go (p. 604) # 1, 3-6, 10

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